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(54) Title: METHOD FOR REMOVAL OF BIOFILM

(57) Abstract: The present invention provides a method for the removal of biofilm, flocculent bulked sludge or bulked biologically active sludge from an aqueous system. The method involves adding one or more chlorinated hydantoin, such as dichloro- or monochlorodialkylhydantoin, to the aqueous system. Alternatively, the chlorinated hydantoin may be formed in situ by adding a chlorine source and an alkylated hydantoin separately to the aqueous system. The invention is particularly advantageous because of the outstanding photostability of the chlorinated hydantoin solutions even when exposed to sunlight.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/17882

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C02F 1/50

US CL : 210/696

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 210/696-701, 755, 756, 764; 162/161; 422/14, 15, 16, 37; 514/389

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,662,940 A (HIGHT et al.) 02 September 1997, col. 2 line 59 through col. 3 line 42, col. 9 line 30 through col. 11 line 38, col. 30 lines 33-64	1-18
Y	US 5,565,109 A (SWEENEY) 15 October 1996, col. 1 line 56 through col. 3 line 48	7-9, 14, 15, 17, 18
A	US 5,972,864 A (COUNTS) 26 October 1999	
A	US 6,149,835 A (BROWN) 21 November 2000	
A	US 6,303,038 B1 (SANDERS et al.) 16 October 2001	

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☐ See patent family annex.

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